

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRF1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) IRF2 (aa 151-349), rhIRF3 (aa 206-427), rhIRF4 (aa 130-451), rhIRF5 (aa 214-395), rhIRF6 (aa 176-366), rhIRF7 (
Source	Monoclonal Mouse IgG _{2B} Clone # 686703
Purification	IgM-specific Affinity-purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IRF1 Thr147-Pro325 Accession # P10914
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IRF1 (interferon regulatory factor 1) is a 45 kDa member of the IRF family of proteins. It is induced by TLR9 and INF-γ stimulation, and positively regulates the expression of IFN-β, iNOS and 1L-12 p35. Human IRF1 is 325 amino acids (aa) in length. It contains an N-terminal DNA-binding basic region (aa 1-140) and an acidic C-terminus (aa 141-325). Lys275 and 299 can be SUMOylated, which blocks activity, or ubiquitinated at Lys299, which initiates degradation. There is a splice variant that shows an 11 aa substitution for the C-terminal 86 amino acids. Over aa 171-325, human IRF1 shares 83% aa identity with both canine and porcine IRF1.

PRODUCT SPECIFIC NOTICES

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